

CLINICAL PRECEPTOR PROGRAM
CLINICAL COMPETENCY RECORD



Clinical Preceptor Program

Clinical Competency Record

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Document control

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1 Introduction and Guidelines

Preceptorship is an important element of post registration education. This preceptorship programme offers a structured 12 month programme of learning and development opportunities during which the practitioner is guided and supervised to develop clear aims and objectives and produce evidence of their achievement and progression.

The programme has been developed to assist newly qualified practitioners to consolidate existing knowledge, refine skills, values and behaviours and apply them to their new roles and to develop their confidence as an autonomous professional. This will enable them to continue on their journey of lifelong learning.

The concepts of ‘lifelong learning’ and ‘reflective practice’ are embedded in the principles of preceptorship and are essential for professional and personal development throughout the career of every health care practitioner (DOH, 2010).

This foundation period of preceptorship is aimed to support you in continuing your journey from novice to expert,

This document has been created for use by NHS Trusts.

It is intended to be used as an on-line document to record Student Competency and form a record of proficiency.

Please note blank pages have been intentionally included for printing purposes.

2 Graduate and Assessor Details



Cheshire and Merseyside
Strategic Clinical Networks

Graduate Details	
Name	Initials
Position	
Department	
Trust	

Assessor Details	
Name	Initials
Position	
Department	
Trust	

Assessor Details	
Name	Initials
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Assessor Details	
Name	Initials
Position	
Department	
Trust	

3 Clinical Competency Area – ECG Analysis

Clinical Competency Area – ECG analysis					
<i>Minimum stage 3 proficiency should be achieved, where this is not the case please complete action plan to achieve stage 3.</i>	<i>Document competency stage (1-3) & sign</i>				
Stage 1 – Foundation Stage 2 – Intermediate Stage 3 - Competent	Stage 1	Stage 2	Stage 3	Assessor	Student
	Date & Initial	Date & Initial	Date & Initial	Date & Initial	Date & Initial
<i>Analysis and interpretation of ECGs</i>					

Foundation ECG analysis

Analysis			
Activity	Pass	Refer	Comments
Identification of and importance of P wave			
Explanation of various P wave morphology			
Identification of PR Interval			
Explanation of lengthening and shortening of the PR Interval			
Identification of QRS			
Explanation of widening of the QRS			
Identification of ST segment			
Explanation of ST segment changes			

Activity	Pass	Refer	Comments
Identification of T wave			
Explanation of an inverted T wave			
Identification of Sinus Rhythm			
Identification of Sinus Bradycardia			
Identification of Sinus Tachycardia			
Identification of Sinus Arrhythmia			
Identification of Normal Frontal Plane Axis			
Explanation of Normal Frontal Plane Axis			

Activity	Pass	Refer	Comments
Identification of Left Axis Deviation (LAD)			
Explanation of Left Axis Deviation			
Identification of Right Axis Deviation (RAD)			
Explanation of Right Axis Deviation			

Outcome:			
Assessor Feedback:			
Assessor: Date & Initials		Graduate: Date & Initials	

Intermediate ECG analysis

Analysis			
Activity	Pass	Refer	Comments
Identification of Supraventricular Extrasystoles (SVE)			
Explanation of the mechanism of SVEs			
Identification of Atrial Fibrillation			
Explanation of the mechanism Atrial Fibrillation			
Identification of Atrial Flutter			
Explanation of the mechanism Atrial Flutter			
Identification of Supraventricular Tachycardia (SVT)			
Explanation of the mechanism of SVT			

Activity	Pass	Refer	Comments
Identification of Ventricular Extrasystoles (VE's)			
Explanation of the mechanism VE's			
Identification of Bigeminy			
Explanation of the mechanism of Bigeminy			
Identification of Trigeminy			
Explanation of the mechanism of Trigeminy			
Identification of Right Bundle Branch Block (RBBB)			
Explanation of the mechanism of RBBB			
Identification of Left Bundle Branch Block (LBBB)			

Activity	Pass	Refer	Comments
Explanation of the mechanism of LBBB			
Identification of ischemia			
Explanation of the mechanism of ischemia			
Identification of injury and infarction			
Explanation of the mechanism of injury and infarction			
Identify a posterior infarct on ECG			
Identify an inferior infarct on ECG			
Identify an anterior infarct on ECG			

Activity	Pass	Refer	Comments
Identify a lateral infarct on ECG			
Identify Left Ventricular Hypertrophy			
Explanation of the mechanism of Left Ventricular Hypertrophy			

Outcome:			
Assessor Feedback:			
Assessor: Date & Initials		Graduate: Date & Initials	

Advanced ECG analysis

Analysis			
Activity	Pass	Refer	Comments
Identification of Wolff Parkinson White Syndrome (WPW)			
Explanation of the mechanism of Wolff Parkinson White Syndrome (WPW)			
Identification of 1 st Degree Block			
Explanation of the mechanism of 1st Degree Block			
Identification of 2 nd Degree Block Mobitz Type 1(Wenkebach)			
Explanation of the mechanism of 2 nd Degree Block Mobitz Type 1(Wenkebach)			
Explanation of the mechanism of Hemiblock			
Identification of Anterior Hemiblock on an ECG			
Identification of Posterior Hemiblock on an ECG			

Activity	Pass	Refer	Comments
Explanation of the mechanism of Bifasicular and Trifasicular Block			
Identify what would be seen on an ECG for Bifasicular and Trifasicular Block			
Explanation of the mechanism of 3 rd Degree Block			
Identify Ventricular Tachycardia			
Identify capture and fusion on an ECG			
Explanation of capture and fusion on an ECG			
Identify Torsades des Points on an ECG			
Identify how to differentiate between SVT with aberrant conduction and VT			
Explanation of the effects of low calcium levels on an ECG			

Activity	Pass	Refer	Comments
Explanation of the effects of low potassium levels on an ECG			
Explanation of the effects of high potassium levels on an ECG			
Explanation of the ECG changes due to Hypothermia			
Explanation of the differentiation between Acute Pericarditis and Infarction			

Outcome:			
Assessor Feedback:			
Assessor: Date & Initials		Graduate: Date & Initials	

4 Clinical Competency Area – Recording a 12-lead ECG

Guide – Criteria for Stage 1, 2 & 3			
	Stage 1	Stage 2	Stage 3
<i>Demonstrate the ability to prepare the patient for an ECG</i>	Introduce yourself to the patient, check the patient's identity and other demographic details and refer to request card to verify referral	Provide patient with rationale for planned test and gain verbal consent	Prepare the patient for the investigation and provide an explanation of the procedure, provide a dignity sheet to female patients
<i>Demonstrate the ability to accurately apply electrodes</i>	Identify accurate electrode positions according to AHA/SCST guidelines Remove and dispose electrodes after use	Demonstrate appropriate skin preparation and electrode application as required	Demonstrate the ability to modify the procedure if necessary e.g. post cardiac surgery due to dressing, amputation etc
<i>Demonstrate the ability to record, optimise and dispatch an ECG</i>	Record a 12 lead ECG and 3 lead rhythm strip as appropriate Accurately label and dispatch the trace	Demonstrate the ability to optimise the ECG trace, identify and minimise any artefact which is present	Be aware of the procedure for dealing with ECG abnormalities
<i>Demonstrate the ability to store, modify and download a recorded ECG as appropriate</i>	Demonstrate the ability to store an ECG once recorded	Demonstrate the ability to modify and recall data on the ECG machine	Demonstrate the ability to download the stored ECG via the modem or wireless connection if applicable
<i>Shows awareness of and follows infection control procedures</i>	Wash hands as per trust policy	Maintain awareness of infection control i.e. barrier rooms/bays	Demonstrate appropriate decontamination of the ECG machine and couch

Clinical Competency Area – Recording a 12-lead ECG

<i>Minimum stage 3 proficiency should be achieved, where this is not the case please complete action plan to achieve stage 3.</i>	Document competency stage (1-3) & sign				
Stage 1 – Foundation Stage 2 – Intermediate Stage 3 - Competent	Stage 1 Date & Initial	Stage 2 Date & Initial	Stage 3 Date & Initial	Assessor Date & Initial	Graduate Date & Initial
<i>Demonstrate the ability to prepare the patient for an ECG</i>					
<i>Demonstrate the ability to accurately apply electrodes</i>					
<i>Demonstrate the ability to record, optimise and dispatch an ECG</i>					
<i>Demonstrate the ability to store, modify and download a recorded ECG as appropriate</i>					
<i>Shows awareness of and follows infection control procedures</i>					
Outcome:					
Assessor Feedback:					
Assessor: Date & Initials		Graduate: Date & Initials			

5 Clinical Competency Area – Ambulatory ECG Interpretations

Guide – Criteria for Stage 1, 2 & 3			
	Stage 1	Stage 2	Stage 3
<i>Able to operate the playback/analysis system. Download ECG strips for interpretation. Manipulate analyser settings.</i>	Able to down load data from storage device for analysis.	Ability to change machine settings. Example: prematurity settings for atrial ectopics, sweep speed, amplitude etc	Troubleshoot problems with analysis system/hardware
<i>Recognise and classify ECG complexes. Recognise areas of artefact and label correctly.</i>	Is able to classify normal sinus rhythm, atrial and ventricular ectopics, Atrial fibrillation/flutter and dangerous rhythms.	Able to recognise and classify ECG complexes to intermediate level as defined in ECG interpretation competency	Recognises complex rhythms: AVNRT SVT vs VT Aberrancy
<i>Check automatic evaluations for accuracy including histograms and trends.</i> <i>*NB – may not be available on all systems.</i>	Produces accurate trends and histograms	Is able to correlate trends/histograms with patient activities	Able to comment on findings with reference to diagnosis. Example; chronotropic incompetence, AF rate control etc.
<i>Ability to correlate patient symptom times/diary events with recordings.</i>	File/print ECG strips at symptom times	Able to comment on findings at symptom times. Example: Normal or abnormal	Able to correlate abnormal ECG findings with patient symptoms
<i>Select ECG tracings sufficient to illustrate and support the final evaluation.</i>	Uses automatically selected information for inclusion in the report.	Includes onset and offset of arrhythmia with appropriate sweep speed/amplitude settings	Able to correlate ECG tracings with patient activities/symptoms
<i>Production of a signed/dated factual report according to local guidelines.</i>	Produces a basic report containing histograms, trends and patient symptoms	Includes additional information to support diagnosis	Understands implications of report/diagnosis on patient care
<i>Recognition of circumstances where views of colleagues should be sought.</i>	Able to ask colleagues for help with ECG recognition	Able to prioritise findings for medic review	Able to recognise urgent findings and seek advice from medics. Example: on-call registrar to review dangerous rhythms
<i>Ability to store a copy of the report in line with local guidelines.</i>	Able to store the report electronically on individual workstation	Able to demonstrate methods for long-term storage/archiving	Able to retrieve stored reports from archiving system

Clinical Competency Area – Ambulatory ECG Interpretation								
<i>Minimum stage 3 proficiency should be achieved, where this is not the case please complete action plan to achieve stage 3.</i>	Document competency stage (1-3) & sign							
Stage 1 – Foundation	Stage 2 – Intermediate	Stage 3 - Competent	Stage 1 Date & Initial	Stage 2 Date & Initial	Stage 3 Date & Initial	Assessor Date & Initial	Graduate Date & Initial	
<i>Able to operate the playback/analysis system. Download ECG strips for interpretation. Manipulate analyser settings</i>								
<i>Recognise and classify ECG complexes Recognise areas of artefact and label correctly</i>								
<i>Check automatic evaluations for accuracy including histograms and trends</i>								
<i>Ability to correlate patient symptom times/diary events with recordings</i>								
<i>Select ECG tracings sufficient to illustrate and support the final evaluation</i>								
<i>Production of a signed/dated factual report according to local guidelines</i>								
<i>Recognition of circumstances where views of colleagues should be sought</i>								
<i>Ability to store a copy of the report in line with local guidelines</i>								
Outcome:								
Assessor Feedback:								
Assessor: Date & Initials					Graduate: Date & Initials			

Guide – Criteria for Stage 1, 2 & 3			
	Stage 1	Stage 2	Stage 3
<i>Understands referrals reasons, effects of patients medications and where ETT maybe contraindicated</i>	Can access patient records and understands the reasons for the test	Awareness of clinical examination and history taking	Knowledge of cardiac drugs, their use and interaction with regard to cardiovascular stress
<i>Communication and analysis of results</i>	Understands relevance of an optimal and sub-optimal ETT	Understands the process of report construction Can explain normal and abnormal findings seen during an ETT	Proficient in report writing and decision making Communicates findings to the patient in a way the patient understands Understands the next steps in the treatment plan
<i>Awareness of ETT use and additional clinical tests that are available for investigation of cardiovascular stress</i>	Demonstrates knowledge of indications for ETT	Understands the relative and absolute contraindications for ETT. Aware of cardiac rehabilitation, RACPC and DVLA requirements	Awareness of other procedures involving cardiovascular stress; radio-nuclide stress test, Dobutamine and stress echocardiography
<i>Ability to problem solve issues that may arise during exercise test and respond to acute events</i>	Knowledge of patient safety issues related to undertaking an ETT Able to take a manual BP in the event the automatic BP is faulty	Aware of complications and what to do when they occur	ILS trained Demonstrates awareness for the local protocol for admitting patients and general handover skills
<i>Awareness of safety issues regarding the environment</i>	Can switch on ETT equipment and check in it is in good working order General understanding of how all the equipment in the ETT room works	Has been assessed to user all equipment in the ETT room (preferably by medical device training competency)	Awareness of where to report any faults with equipment
<i>Ensures optimum quality of ECG recording</i>	Correct electrode placement	Patient preparation is carried out correctly to reduce interference to a minimum- to include	Recognises artefact and reduces it to a minimum during the test

6 Clinical Competency Area – Exercise Tolerance Testing

Clinical Competency Area – Exercise Tolerance Testing					
<i>Minimum stage 3 proficiency should be achieved, where this is not the case please complete action plan to achieve stage 3.</i>	Document competency stage (1-3) & sign				
Stage 1 – Foundation Stage 2 – Intermediate Stage 3 - Competent	Stage 1 Date & Initial	Stage 2 Date & Initial	Stage 3 Date & Initial	Assessor Date & Initial	Student Date & Initial
<i>Understands referrals reasons, effects of patients medications and where ETT maybe contraindicated</i>					
<i>Awareness of ETT use and additional clinical tests that are available for investigation of cardiovascular stress</i>					
<i>Ensures optimum quality of ECG recording</i>					
<i>Ability to problem solve issues that may arise during exercise test and respond to acute events</i>					
<i>Communication and analysis of results</i>					
<i>Awareness of safety issues regarding the environment</i>					
<i>Physiologist is competent in being an assisting physiologist during a physiologist led ETT</i>					
<i>Physiologist can led with another physiologist assisting</i>					
Outcome:					
Assessor Feedback:					
Assessor: Date & Initials		Graduate: Date & Initials			

